

ABSTRACT

A motor producing a rectilinear drive force can be simultaneously provided with a small size and a lightweight, high accuracy and a large drive force.

5        In a spiral linear motor 1, a rotator 3 and stator 2 are both constituted having a spiral shape and, by joining together both spiral-shaped parts, a drive force is produced in the axial direction during rotation in a spiral shape. By affording the spiral linear motor a spiral shape, 10 a large drive force can be obtained similarly to that of a reduction gear and a large drive force can be obtained by utilizing a large area that lies opposite in the axial direction of the rotator and stator.